



## Diesel Technology Certificate

**Advisor – Ayers Campus:** Stephan Stuelp, Diesel Building, (256.835.5419) [sstuelp@gadsdenstate.edu](mailto:sstuelp@gadsdenstate.edu)

		<b>STUDENT PROGRESS</b>	
		<u>Grade</u>	<u>Term Completed</u>
<b>Area I—Written Composition: ..... 3</b>			
•	COM 100 - Introductory Technical English I <b>OR</b>		
	ENG 101 - English Composition I ..... 3	_____	_____
<b>Area II—Humanities and Fine Arts: ..... 0</b>			
<b>Area III—Natural Science or Mathematics: ..... 3</b>			
•	MAH 101 - Introductory Mathematics I <b>OR</b>		
	MTH 100 - Intermediate College Algebra <b>OR</b>		
	numerically higher..... 3	_____	_____
<b>Area IV—History, Social, and Behavioral Sciences: ..... 0</b>			
<b>Area V—Technical Courses: ..... 19</b>			
Courses listed below are required.			
•	DEM 104 - Basic Engines ..... 3	_____	_____
•	DEM 105 – Preventive Maintenance..... 3	_____	_____
•	DEM 122 - Heavy Vehicle Brakes..... 3	_____	_____
•	DEM 124 - Electronic Engine Systems ..... 3	_____	_____
•	DEM 125 - Heavy Vehicle Drive Trains..... 3	_____	_____
•	DEM 130 - Electrical/Electronic Fundamentals..... 3	_____	_____
•	ORT 100 - Orientation for Career Students ..... 1	_____	_____
<b>Additional Coursework: ..... 31</b>			
•	DEM 111 - Equipment Safety / Mechanical Fundamentals..... 3	_____	_____
•	DEM 114 - Fluid Power Components..... 3	_____	_____
•	DEM 119 - Bearings and Lubricants ..... 3	_____	_____
•	DEM 123 – Pneumatics and Hydraulics..... 3	_____	_____
•	DEM 127 – Fuel Systems ..... 3	_____	_____
•	DEM 128 - Heavy Vehicle Drive Train Lab ..... 3	_____	_____
•	DEM 129 - Diesel Engine Lab..... 3	_____	_____
•	DEM 131 - Electrical/Electronic Fundamentals II..... 3	_____	_____
•	DEM 135 - Heavy Vehicle Steering and Suspension Systems .. 3	_____	_____
•	DEM 137 - Heating, A/C, and Refrigeration Systems ..... 3	_____	_____
•	DEM 154 - Vehicle Maintenance & Safe Operating Practices ... 3	_____	_____
•	DEM 155 – Preventive Maintenance II..... 3	_____	_____
•	DEM 180 - Special Projects in Commercial Vehicles..... 3	_____	_____
•	DEM 181 – Special Topics in Electrical ..... 3	_____	_____
•	DEM 182 – Special Topics in Engines ..... 3	_____	_____
•	DEM 183 – Special Topics in Power Train..... 3	_____	_____
•	DEM 184 - Special Topics in Heavy Duty Brakes, Steering, and Suspension..... 3	_____	_____
•	DEM 186 – Special Projects in Commercial Vehicles ..... 3	_____	_____
•	DEM 187 - Industrial Safety ..... 1	_____	_____
•	DEM 191 - Special Projects in Diesel Mechanics ..... 3	_____	_____

<b>STUDENT PROGRESS</b>		
	<u>Grade</u>	<u>Term Completed</u>
• DEM 192 - Co-Op Elective.....	_____	_____
• DEM 196 - Co-Op Elective.....	_____	_____
• DEM 196A - Co-Op Elective .....	_____	_____
• DEM 197 - Co-Op Elective.....	_____	_____
• DPT 100 - Introductory Computer Skills I <b>OR</b> CIS 146 - Microcomputer Applications.....	_____	_____
• SPC 103 - Oral Communication Skills <b>OR</b> SPH 106 - Fundamentals of Oral Communication .....	_____	_____

**Total Hours Required for Certificate: ..... 56**

**NOTICE(s):** For the certificate in Diesel Mechanics, the student must complete a minimum of 56 credit hours—50 in technical courses and a minimum of 6 hours in general education courses—all of which must be approved by the advisor. Required courses may vary to provide options and to meet student needs. Courses will be selected from those listed above. Admission Requirement: The student must be 17 or older.

**\*This program is offered at the Ayers Campus only.**